### WARWIC THE UNIVERSITY OF WARWICK

## Poster presented by Robert Jones

#### **1)Knowledge and understanding:**

Retrieval Practice (RP) is a pedagogical strategy which involves recalling knowledge and skills from within the curriculum. This is an extremely important skill in Geography as the discipline requires the application of a broad knowledge and skills base. RP is arguably an integral part of the overall learning process, and has subsequently been a fundamental element of professional development in lesson planning and delivery. This is reinforced by Ofsted, to whom stated that RP is an 'essential' part of the learning process (Ofsted, 2021).

### 2) Theory (The Testing Effect):

The Testing Effect is a highly established theory which was perpetuated by Karpicke and Blunt (2011). Their theory indicates that if learners participate It can be seen that in a testing process during phases of learning, then it is easier to facilitate the retrieval of knowledge from the long-term memory Dutke et al. (2017). This theory is highly applicable to geography, with a particular emphasis on two sections of the Geography Curriculum:

- Application of numeracy skills
- Longer answer essay questions

#### 3) Classroom Practice:



**References:** 

Ofsted. 2021. What's working well in remote education. [online] Available at: < https://www.gov.uk/government/publications/whats-working-well-in-remote-education/whats-working-well-in-remote-education/whats-working-well-in-remote-education#feedback-retrieval-practice-and-assessment-are more-important-than-ever> [Accessed 5 June 2021] Agarwal, P., Bain, P. and Chamberlain, R., 2012. The Value of Applied Research: Retrieval Practice Improves Classroom Learning and Recommendations from a Teacher, a Principal, and a Scientist. Educational Psychology Review, 24(3), pp.437-448. Karpicke, J. and Blunt, J., 2011. Response to Comment on "Retrieval Practice Produces More Learning than Elaborative Studying with Concept Mapping." Science, 334(6055), pp.453-453. Carpenter, S., Endres, T. and Hui, L., 2020. Students' Use of Retrieval in Self-Regulated Learning: Implications for Monitoring and Regulating Effortful Learning Experiences. Educational Psychology Review, 32(4), pp.1029-1054.

# How effective is Retrieval Practice within the Geography Curriculum?

Figure 1: is an example of the **Forgetting Curve.** at each retrieval interval, the percentage of knowledge retained increases (MindTools, n.d.)



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Schwieren, J., Barenberg, J. and Dutke, S., 2017. The Testing Effect in the Psychology Classroom: A Meta-Analytic Perspective. Psychology Learning & Teaching, 16(2), pp.179-196. Mcleod, S., 2017. Kolb's Learning Styles and Experiential Learning Cycle | Simply Psychology. [online] Simply psychology.org. Available at: <a href="https://www.simplypsychology.org/learning-kolb.html">https://www.simplypsychology.org/learning-kolb.html</a> [Accessed 3 May 2021]. The Forgetting Curve: Why We Forget, and What We Can Do About It. n.d. *MindTools*. [online] Available at: <a href="https://www.mindtools.com/pages/article/forgetting-curve.htm">https://www.mindtools.com/pages/article/forgetting-curve.htm</a>> [Accessed 3 June 2021]. Butler, A. and Roediger, H., 2007. Testing improves long-term retention in a simulated classroom setting. European Journal of Cognitive Psychology, 19(4-5), pp.514-527. Ebbinghaus, H., 1913. Memory. New York: [publisher not identified].



